

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP98/04778

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁶ G03B17/52, G03B17/48, G03B19/02, G03B27/72, H04N1/387, H04N1/04, H04N1/12, H04N1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁶ G03B1/00-1/66, G03B17/26-17/34, G03B17/38-17/55, H04N1/387

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Meisaisho 1997-1998
Kokai Jitsuyo Shinan Koho 1971-1996

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 1-137245, A (Canon Inc.), 30 May, 1989 (30. 05. 89), Claims ; page 2, upper left column, line 6 to lower right column, line 8 ; Figs. 1 to 6 (Family: none)	1-27
Y	JP, 59-219737, A (Konica Corp.), 11 December, 1984 (11. 12. 84), Claims ; page 2, lower right column, line 5 to page 4, upper left column, line 3 ; Figs. 1 to 4 (Family: none)	1-27
Y	JP, 2-287527, A (Fuji Photo Film Co., Ltd.), 27 November, 1990 (27. 11. 90), Page 2, lower right column, line 12 to page 3, upper right column, line 6 ; page 4, upper left column, lines 2 to 9 ; Figs. 2, 3 & US, 5032911, A	1-27

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
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Japanese Patent Office

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 2-301736, A (Minolta Camera Co., Ltd.), 13 December, 1990 (13. 12. 90), Claims ; page 2, lower left column, line 13 to upper right column, line 2 ; page 3, upper left column, lines 1 to 3, 7 to 11 ; page 5, upper right column, lines 1 to 9 ; page 5, lower left column, line 7 to page 6, upper left column, line 9 ; page 8, lower left column, line 10 to page 9, upper right column, line 9 ; page 9, lower left column, lines 18 to 1 ; page 10, upper right column, line 19 to lower left column, line 5 ; page 11, upper right column, line 9 to lower left column, line 5 ; Figs. 1 to 4, 6, 8 to 13 & EP, 398295, A	1-27
Y	JP, 2-301734, A (Minolta Camera Co., Ltd.), 13 December, 1990 (13. 12. 90), Page 2, lower left column, lines 9 to 18, lower right column, lines 17 to 19 ; page 3, upper left column, lines 3 to 7 ; page 5, upper left column, line 18 to upper right column, line 5 ; page 5, lower left column, line 3 to page 6, upper left column, line 5 ; page 8, lower left column, line 6 to page 9, upper right column, line 5 ; page 9, lower left column, lines 14 to 18 ; page 10, upper right column, line 15 to lower left column, line 1 ; page 11, upper right column, lines 5 to 20 ; Figs. 1 to 4, 6, 8 to 13 & EP, 398295, A	1-27
Y	JP, 3-282531, A (Brother Industries, Ltd.), 12 December, 1991 (12. 12. 91), Page 4, upper right column, lines 12 to lower right column, line 7 ; Figs. 1 to 3 & US, 5091743, A	7, 8
Y	JP, 4-51034, A (Brother Industries, Ltd.), 19 February, 1992 (19. 02. 92), Claims ; page 2, lower left column, lines 1 to 5 ; page 3, upper right column, line 12 to lower left column, line 9 ; Fig. 1 (Family: none)	7, 8
Y	JP, 4-29128, A (Seiko Epson Corp.), 31 January, 1992 (31. 01. 92), Claims ; page 3, lower left column, line 14 to page 4, upper left column, line 18 ; Figs. 2, 6 (Family: none)	9, 10
Y	JP, 9-65182, A (Canon Inc.), 7 March, 1997 (07. 03. 97), Par. Nos. [0054], [0055]	18
Y	Claims ; Par. Nos. [0015], [0046], [0048], [0081] to [0083] (Family: none)	19
Y	JP, 9-61934, A (Canon Inc.), 7 March, 1997 (07. 03. 97), Claims ; Par. Nos. [0015], [0046], [0048] to [0053], [0077], [0078] (Family: none)	19

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP, 5-27341, A (Seikosha Co., Ltd.), 5 February, 1993 (05. 02. 93), Claim 4 ; Par. Nos. [0020], [0022], [0028], [0036] to [0042] ; Figs. 4 to 6 (Family: none)	13, 22, 28
Y	JP, 5-19383, A (Seikosha Co., Ltd.), 29 January, 1993 (29. 01. 93), Claims ; Par. Nos. [0004], [0006] to [0008], [0025], [0026] ; Figs. 1, 2, 6, 8 (Family: none)	13, 22, 28
Y	JP, 5-19380, A (Seikosha Co., Ltd.), 29 January, 1993 (29. 01. 93), Claims 3 to 5 ; Par. Nos. [0002] to [0005], [0018] to [0020] ; Figs. 1 to 6 (Family: none)	13, 22, 28
Y	JP, 6-189308, A (Eastman Kodak Japan Ltd.), 8 July, 1994 (08. 07. 94), Claims 1, 2 ; Par. Nos. [0008] to [0010], [0021] to [0025] (Family: none)	2, 12, 14, 17, 18
Y	JP, 3-271730, A (Fuji Photo Optical Co., Ltd.), 3 December, 1991 (03. 12. 91), Claims ; page 2, upper left column, line 7 to lower left column, line 4, lower right column, lines 8 to 20 ; page 3, lower left column, line 16 to lower right column, line 16 ; Fig. 1 (Family: none)	2, 12, 14, 17, 18
Y	JP, 4-212943, A (Nikon Corp.), 4 August, 1992 (04. 08. 92), Claims ; Par. No. [0006] & US, 5687415, A	28
Y	JP, 52-119224, A (Eastman Kodak Co.), Page 2, lower right column, line 18 to page 3, upper left column, line 10 & DE, 2611603, A & FR, 2343271, A & GB, 1571044, A & US, 4020499	28
Y	JP, 4-78843, A (Brother Industries, Ltd.), Fig. 2 (Family: none)	28
Y	JP, 6-309428, A (Canon Inc.), Claims ; Par. Nos. [0008], [0012] to [0014], [0148] to [0153], [0157] to [0190], [0254] ; Figs. 3, 33, 28, 48 to 50 (Family: none)	2